

# **Overview of Enhancements for the EPA Water Quality Standards Database (WQSDB) v.9**

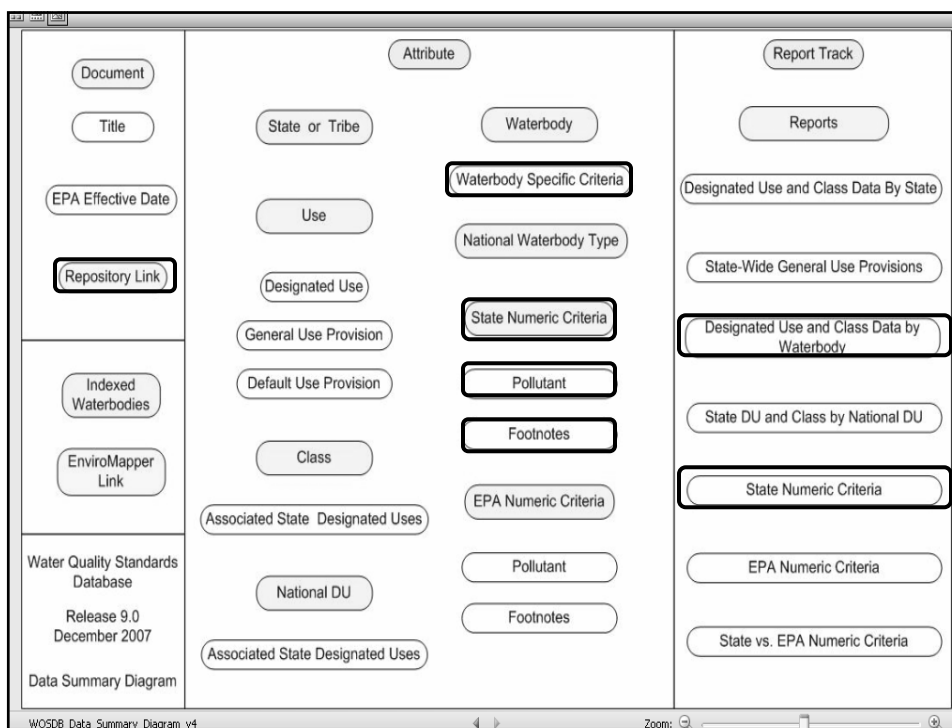
Bill Kramer (EPA OST)  
202-566-0385  
[kramer.bill@epa.gov](mailto:kramer.bill@epa.gov)

1

## **WQSDB Release 9 Enhancements**

- State criteria is related and linked to designated uses, classes, and waterbodies for analysis.
- Includes priority state drinking water criteria (pollutants and values).
- Added missing data elements (DU names, descriptions, etc.).
- Updated data content based on recently approved Water Quality Standards from the Repository
- Streamlined reporting and database tables to improve data relationships for the overall user interface

2



## WQSDb Release 9 Reports

1. **Designated Use and Class Data by State Waterbody**
2. **State Numeric Criteria**
3. **Designated Use and Class Data by State**
4. **State-Wide General Use Provisions**
5. **State Designated Use and Class Data by National Designated Use**
6. **EPA Numeric Criteria**
7. **State Numeric Criteria vs. EPA Numeric Criteria**

<http://www.epa.gov/wqsdatabase/reports.html>

## Designated Use and Class Data by State Waterbody Report

- This report is a summary of designated use and class data that has been mapped (33 states to date) and linked to the NHD stream network at a scale of 1:100k.
- Provides users with the capability to search state water quality information spatially.
- The user may select data for a particular state based on designated use(s) and search by waterbody name.
- Users can view associated pollutants and criterion values intended to protect waterbodies that have drinking water or human health related designated uses or classes.
- Other CWA programs may also view protected state designated use and criteria data by waterbody by using [EnviroMapper for Water](#).
  - Users can use EM to compare mapped WQS to other programs (i.e., impaired waters)

[http://iaspub.epa.gov/wqsdatabase/rpt\\_du\\_cl\\_st\\_wb.run\\_report](http://iaspub.epa.gov/wqsdatabase/rpt_du_cl_st_wb.run_report)

5



**Water Quality Standards Database**  
[Contact Us](#) | Search:    
[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

### Designated Use and Class Data by State Waterbody Report

Under the guidance and approval of the EPA, states must establish and define water quality standards in support of The Clean Water Act. Through this process, states develop water quality standards that consist of designated uses, beneficial uses, or classifications for all surface waters within their respective jurisdiction. Some states have mapped their respective water quality uses or classes to specific waterbodies within their jurisdiction. This report is a summary of designated use and class data that have been mapped to the National Hydrography Dataset (NHD) at a scale OF 1:100k. The user may select data for a particular state based on designated use(s) and search by waterbody Name(s).

Select a State, Territory, or Tribe from the scrolling list. If a state or jurisdiction is not available from the drop down list, data for that state or jurisdiction has not been mapped to the National Hydrography Dataset (NHD). States with asterisks (\*) organize their Designated Use data by Classes.

State/Tribe(s):

AZ - Arizona

CO - Colorado

CSKT - Confederated Salish And Kootenai Tribes \*

CT - Connecticut \*

DC - District Of Columbia

DE - Delaware

FL - Florida \*

IA - Iowa

ID - Idaho

IL - Illinois \*

IN - Indiana

KY - Kentucky

LA - Louisiana

MN - Minnesota \*

MO - Missouri


MS - Mississippi

MT - Montana \*

ND - North Dakota \*

NE - Nebraska

NM - New Mexico



**Water Quality Standards Database**

Contact Us | Search:

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

U.S. ENVIRONMENTAL PROTECTION AGENCY

### Connecticut Waterbody and Designated Use Data

Select one or more State Designated Uses from the scrolling list. To select more than one State Designated Use, hold down the control key while clicking on the text. To clear all selections press the Reset button.

State Designated Use:

All Designated Uses

Agriculture

Commercial Shellfish Harvesting Where Authorized

Existing Or Proposed Drinking Water

Choose the waterbodies for this report using one of these two methods:

Method 1: Type a Waterbody Name into the text box below, and select the appropriate option for "Beginning with", "Exact match" or "Containing". For example, enter Lake Huron for the waterbody name and "Containing" to locate a waterbody that contains the phrase "Lake Huron".

Waterbody Name:

☐ Beginning with   
 ☐ Exact match   
 ☐ Containing

Method 2: Select all waterbodies by clicking on "All Waterbody Names" or click on one or more waterbody names. Use the scroll bar or type the first letter of a Waterbody Name to move down the list. The Name in Method 1 must not be filled out if you choose this method.

Waterbody Name:

All Waterbody Names

Abbey Brook

Abington Brook

Aborn Brook

Adams Brook

Adds Brook


Aggard Brook

Alden Brook

Allen Brook

Allyn Brook

Click the Run Report button to view the report results. To clear all selections, click the Reset button.



**Water Quality Standards Database**

Contact Us | Search:

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

U.S. ENVIRONMENTAL PROTECTION AGENCY

### Connecticut Waterbody and Designated Use Data

#### Potential Drinking Water Supplies

This beneficial use designates water which will be protected for potential drinking water supplies

State will often times establish Aquatic Life and Human Health criterion categories for protection of state defined drinking water supplies used for public consumption, as these two categories typically apply the most stringent protection for surface waters. At this point in time, the WQSD only relates state criteria to Clean Water Act 101(a) and 303(c) public water supply designated uses and associated chronic criteria for only select pollutants that have known impacts on the overall quality of drinking water for human consumption. Therefore, some state designated uses and classes will not have associated criterion.

Click here to view the associated pollutants and state criteria that protect this waterbody (Abington Brook).

If state defined drinking water supplies used for public consumption, as these two WQSD only relates state criteria to Clean Water Act 101(a) and 303(c) public water impacts on the overall quality of drinking water for human consumption. Therefore, National Hydrography Dataset and there is no link to EnviroMapper.

Associated State Designated Use(s)	
<a href="#">Habitat For Fish, Other Aquatic Life And Wildlife</a>	
<a href="#">Industrial Supply</a>	
<a href="#">Potential Drinking Water Supplies</a>	
<a href="#">Recreation</a>	
<a href="#">Habitat For Fish, Other Aquatic Life And Wildlife</a>	
<a href="#">Industrial Supply</a>	
<a href="#">Potential Drinking Water Supplies</a>	
<a href="#">Recreation</a>	
<a href="#">Habitat For Fish, Other Aquatic Life And Wildlife</a>	
<a href="#">Industrial Supply</a>	
<a href="#">Potential Drinking Water Supplies</a>	
<a href="#">Recreation</a>	

CT01100001_3710_2_A	Abington Brook	River	
CT01100001_3710_2_A	Abington Brook	River	

U.S. ENVIRONMENTAL PROTECTION AGENCY

# Water Quality Standards Database

[Contact Us](#) | Search:


[GO](#)

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > Database

## Associated Pollutants and State Criteria that protect Abington Brook located in Connecticut for Designated Use: Potential Drinking Water Supplies

- States will often times establish Aquatic Life and Human Health criterion categories for protection of state defined drinking water supplies used for public consumption, as these two categories typically apply the most stringent protection for surface waters. At this point in time, the WQSDB only relates state criteria to Clean Water Act 101(a) and 303(c) public water supply designated uses and associated chronic criteria for only select pollutants that have known impacts on the overall quality of drinking water for human consumption. Therefore, some state designated uses and classes will not have associated criterion.
- Clicking on a Criteria Value will display the associated Protected Designated Uses and Classes for the Pollutant in a pop-up window.
- To save the data in this report, select the content, copy it, paste it in a compatible application, such as, a word processing application and save it using the application menu.

Pollutant	Unit of Measurement	Freshwater Aquatic Life (Chronic)	Human Health - Organisms Only	Human Health - Water And Organisms	
1,1,2-Trichloroethane	ppb		42	6	
1,1-Dichloroethylene	ppb		3.2	.057	
1,2,4-Trichlorobenzene	ppb		940	70	
1,2-Dichloroethane	ppb		99	.38	
1,2-Dichloropropane	ppb		39	.52	
Antimony	ppb		4300	6	
Asbestos	MFL			7	
Benzene	ppb		71	1.2	
Benzo(a)pyrene (PAHs)	ppb		.049	.0044	
Beryllium	ppb		.13	.0077	
Bromodichloromethane	ppb		46	.56	
Bromoform	ppb		360	4.3	
Cadmium	ppb	1.35	10769	5	
Carbon tetrachloride	ppb		4.4	.25	
Chlordane	ppb	.0043	b .0022	b .0021	b
Chlorine	ppb	11			

	<div>U.S. ENVIRONMENTAL PROTECTION AGENCY</div> <div>Water Quality Standards Database</div> <div> <div>Contact Us   Search: <input type="text"/></div> <div>GO</div> </div> <div>EPA Home &gt; Water &gt; Water Science &gt; Standards &gt; Database</div>			
<div>Protected Designated Use and Classes for Connecticut</div>				
<div>Pollutant Name: Asbestos</div>				
<div>Category Type Name: Human Health -- Water and Organisms</div>				
State Class Name	Class Description	Associated State Designated Use and Description		EPA Effective Date
CT Inland Surface Waters Class A	Habitat for fish and other aquatic life and wildlife; potential drinking water supplies; recreation; and water supply for industry and agriculture.	Agriculture	Involves the use of water for agricultural water supplies.	12/17/2002
		Fish Consumption	Fish Harvesting for Direct Consumption Where Authorized	
		Habitat for Fish, Other Aquatic Life and Wildlife	This beneficial use designates waters for fish, other aquatic life, and wildlife habitat.	
		Industrial Supply	Involves the use of water for industrial water supplies.	
		Potential Drinking Water Supplies	This beneficial use designates water which will be protected for potential drinking water supplies	
		Recreation	This beneficial use designates water which will be protected for recreation.	
CT Inland Surface Waters Class AA	Existing or proposed drinking water supplies; habitat for fish and other aquatic life and wildlife; recreation; and water supply for industry and agriculture.	Agriculture	Involves the use of water for agricultural water supplies.	12/17/2002
		Existing or proposed drinking water	This beneficial use designates water which will be protected for existing or proposed drinking water supplies.	
		Fish Consumption	Fish Harvesting for Direct Consumption Where Authorized	
		Habitat for Fish, Other Aquatic Life and Wildlife	This beneficial use designates waters for fish, other aquatic life, and wildlife habitat.	
		Industrial Supply	Involves the use of water for industrial water supplies.	
		Recreation	This beneficial use designates water which will be protected for recreation.	
CT Inland Surface Waters Class B	Habitat for fish and other aquatic life and wildlife; recreation; and industrial and agricultural water supply.	Agriculture	Involves the use of water for agricultural water supplies.	12/17/2002
		Fish Consumption	Fish Harvesting for Direct Consumption Where Authorized	
		Habitat for Fish, Other Aquatic Life and Wildlife	This beneficial use designates waters for fish, other aquatic life, and wildlife habitat.	
		Industrial Supply	Involves the use of water for industrial water supplies.	
		Recreation	This beneficial use designates water which will be protected for recreation	

## State Numeric Criteria Report

- This report lists state defined Water Quality Standards criteria.
- At this time, the WQSDB only relates state criteria to Clean Water Act 101(a) and 303(c) public water supply designated uses and associated chronic criteria for only select pollutants that have known impacts on the overall quality of drinking water for human consumption.
- Users may click on state defined criteria values to view the associated protected Designated Uses and Classes.

[http://iaspub.epa.gov/wqsdatabase/rpt\\_st\\_num\\_criteria.run\\_report](http://iaspub.epa.gov/wqsdatabase/rpt_st_num_criteria.run_report)

11



**Water Quality Standards Database**  
[Contact Us](#) | Search:    
[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

### State Numeric Criteria Report

This report lists state defined Water Quality Standards criteria. This report includes only the public water supply designated uses and associated chronic criteria for select pollutants that have known impacts on the overall quality of drinking water for human consumption. States will often times establish Aquatic Life and Human Health criterion for protection of state defined drinking water supplies used for public consumption, as these two categories typically apply the most stringent protection for surface waters. Users can select a state or jurisdiction of interest to view pollutants, criteria values, and the associated designated uses or classes that state criterion that protect the water quality of public drinking water supplies.

Select a State, Territory, or Tribe from the drop down list to view pollutants and state criteria values intended to protect state defined Water Quality Standards.  
If a state or jurisdiction is not available from the drop down list, data for that state or jurisdiction is not available in this release of the Water Quality Standards Database.

State/Tribes(s):

DE - Delaware

FL - Florida

GA - Georgia

HI - Hawaii

IA - Iowa

ID - Idaho

IL - Illinois

IN - Indiana

KS - Kansas

KY - Kentucky

LA - Louisiana

MD - Maryland

ME - Maine

MI - Michigan

MN - Minnesota

MO - Missouri

MS - Mississippi

MT - Montana

NC - North Carolina

ND - North Dakota

### State Numeric Criteria Report for Louisiana

• States will often times establish Aquatic Life and Human Health criterion categories for protection of state defined drinking water supplies used for public consumption, as these two categories typically apply the most stringent protection for surface waters. At this point in time, the WQSDB only relates state criteria to Clean Water Act 101(a) and 303(c) public water supply designated uses and associated chronic criteria for only select pollutants that have known impacts on the overall quality of drinking water for human consumption. Therefore, some state designated uses and classes will not have associated criterion.

• If the Criteria Value has a link, Click on the Criteria Value to display the associated Protected Designated Uses and Classes for the Pollutant in a pop-up window.  
 • To save the data in this report, select the content, copy it, paste it in a compatible application, such as, a word processing application and save it using the application menu.

Pollutant	Unit of Measurement	Freshwater Aquatic Life (Chronic)	Human Health/ Drinking Water Supply	Human Health/ Non-Drinking Water Supply
1,1,1-Trichloroethane	ppb	2640	200	
1,1,2-Trichloroethane	ppb	900	.56	6.9
1,1-Dichloroethylene	ppb	580	.05	.58
1,2-Dichloroethane	ppb	5900	.36	6.8
2,4,5-TP (Silvex)	ppb		10	c d
2,4-D	ppb		100	
Arsenic	ppb	150	50	
Benzene	ppb	1125	1.1	12.5
Bromodichloromethane	ppb		.2	2.2
Bromofluoromethane	ppb			
Carbon tetrachloride	ppb			
Chloroform	ppb			
Chloroform	ppb			
Cyanide	ppb			
Dibromochloromethane	ppb			
Dichloromethane	ppb			
Dioxin (2,3,7,8-TCDF)	ppb			
Endrin	ppb			
Ethylbenzene	ppb			
Heptachlor Epoxide	ppb			
Hexachlorocyclopentadiene	ppb			
Lindane	ppb			
Mercury (inorganic)	ppb			
Polychlorinated Biphenyls (Aroclor 1248)	ppb			
Tetrachloroethylene	ppb			
Toluene	ppb			
Toxaphene	ppb			
Trichloroethylene	ppb			
Vinyl chloride	ppb		1.9	35.8

**Water Quality Standards Database**

Contact Us | Search | [GO](#)

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > Database

U.S. ENVIRONMENTAL PROTECTION AGENCY

#### Protected Designated Use and Classes for Louisiana

Pollutant Name: Arsenic

Category Type Name: Human Health/ Drinking Water Supply

State	Designated Use Name	Designated Use Description	EPA Effective Date
LA	Drinking Water Supply	Refers to the use of water for human consumption and general household use. Surface waters designated as drinking water supplies are identified in the numerical criteria tables; this designation does not apply to their tributaries or distributaries unless so specified.	01/01/2000

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

## Real World Application of Drinking Water Criteria (lessons learned)


- During Hurricane Katrina, decision makers needed drinking water criteria for pollutants known to cause harm to human health.
- The EPA Emergency Operations Center (EOC), field scientists, and other federal agencies required WQS criteria linked to designated uses and waterbodies where public drinking water supplies would be impacted the most.
- The current WQSDB provides users with the capability to query drinking water criteria by state and when available, by waterbody. Providing a baseline of drinking water criteria to be used by decision makers in the next EPA national emergency response incident

## EPA Numeric Criteria Report

- This report lists the recommended EPA numeric criteria for 120 nationally defined priority pollutants.
- Users may select data based on pollutant(s).

[http://iaspub.epa.gov/wqsdatabase/rpt\\_epa\\_num\\_criteria.run\\_report](http://iaspub.epa.gov/wqsdatabase/rpt_epa_num_criteria.run_report)

15



U.S. ENVIRONMENTAL PROTECTION AGENCY

**Water Quality Standards Database**

[Contact Us](#) | Search:

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

### EPA Numeric Criteria Report

The report includes: Priority Pollutant, EPA Freshwater CMC, EPA Freshwater CCC, EPA Saltwater CMC, EPA Saltwater CCC, EPA Water and Organism, EPA Organism Only, Pollutant Unit, and Effective Date.)  
Select one or more Priority Pollutants from the scrolling list. To select more than one Priority Pollutant, hold down the control key while clicking on the text. To clear all selections, press the Reset button. Press the Run Report button to generate the selected records.

Priority Pollutant:

All Priority Pollutants

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethylene

1,2,4-Trichlorobenzene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)



Current National Recommended Water Quality Criteria - U.S. EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

### Water Quality Criteria

Search:

Current National Recommended Water Quality Criteria

EPA's compilation of national recommended water quality criteria is presented as a summary table containing recommended water quality criteria for the protection of aquatic life and human health in surface water for approximately 150 pollutants. These criteria are published pursuant to Section 304(a) of the Clean Water Act (CWA) and provide guidance for states and tribes to use in adopting water quality standards.

- Fast Sheet (May 25, 2005) - request a hard copy of the poster or brochure
- Print version of this table (PDF) (25 pages, 139 KB)
- Previous versions of national recommended water quality criteria table
- Chemical Specific Criteria Documents from the 1980s
- Water quality standards
- Drinking water maximum contaminant levels (MCLs)

Priority Pollutants | Non Priority Pollutants  
Organoleptic Effects (e.g., taste and odor) | Additional Notes

- Appendix A—Conversion Factors for Dissolved Metals
- Appendix B—Parameters for Calculating Freshwater Dissolved Metals Criteria That Are Hardness-Dependent
- Appendix C—Calculation of Freshwater Ammonia Criterion
- Gold & Red Books


#### Priority Pollutants

Priority Pollutant	CAS Number	Freshwater		Saltwater		Human Health for the consumption of		FR Cite/Source
		CMC <sup>1</sup> (acute) (µg/L)	CCC <sup>1</sup> (chronic) (µg/L)	CMC <sup>1</sup> (acute) (µg/L)	CCC <sup>1</sup> (chronic) (µg/L)	Water + Organism (µg/L)	Organism Only (µg/L)	
1. Antimony	7440360					5.6 B	640 B	65FR66443
2. Arsenic	7440382	340 A,D,K	150 A,D,K	69 A,D,bb	36 A,D,bb	0.018 C,M,S	0.14 C,M,S	65FR31682 57FR60848
3. Beryllium	7440417					Z		65FR31682
4. Cadmium	7440439	2.0 D,E,K,bb	0.25 D,E,K,bb	40 D,bb	8.8 D,bb	Z		EPA-822-R-01-001 65FR31682

## State vs. EPA Numeric Criteria Report

- This report compares available state drinking water numeric criteria with the recommended EPA numeric criteria.
- State data includes only the CWA 101(a) and 303(c) public water supply designated uses and associated chronic criteria for select contaminants.
- Users may select data based on pollutant(s).

[http://iaspub.epa.gov/wqsdatabase/rpt\\_st\\_vs\\_epa\\_num\\_criteria.run\\_report](http://iaspub.epa.gov/wqsdatabase/rpt_st_vs_epa_num_criteria.run_report)



**Water Quality Standards Database**

Contact Us | Search:

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

U.S. ENVIRONMENTAL PROTECTION AGENCY

### State vs. EPA Numeric Criteria Report

The report includes: State, State Pollutant Name, State unit of measurement and State defined Numeric Criteria Categories with associated Criterion values. Priority Pollutant, EPA Freshwater CMC, EPA Freshwater CCC, EPA Saltwater CMC, EPA Saltwater CCC, EPA Water and Organism, EPA Organism Only, Pollutant Unit, and Effective Date. California Water Quality Standards are managed regionally.


Running this report requires two steps. Choose the State in the first step, choose the Pollutant(s) in the second step and click the Run Report button. If a state or jurisdiction is not available from the drop down list, data for that state or jurisdiction is not available in this release of the Water Quality Standards Database.

**Step 1:** Select a State from the drop down list. To clear all selections, press the Reset button. Press the Run Report button to generate the report for the selected records.

State/Tribe(s):

- ME - Maine
- MI - Michigan
- MN - Minnesota
- MO - Missouri
- MS - Mississippi
- MT - Montana**
- NC - North Carolina
- ND - North Dakota
- NE - Nebraska
- NH - New Hampshire

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)



**Water Quality Standards Database**

Contact Us | Search:

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

U.S. ENVIRONMENTAL PROTECTION AGENCY

### State vs. EPA Numeric Criteria Report

The report includes: State, State Pollutant Name, State unit of measurement and State defined Numeric Criteria Categories with associated Criterion values. Priority Pollutant, EPA Freshwater CMC, EPA Freshwater CCC, EPA Saltwater CMC, EPA Saltwater CCC, EPA Water and Organism, EPA Organism Only, Pollutant Unit, and Effective Date. California Water Quality Standards are managed regionally.


Running this report requires two steps. Choose the State in the first step, choose the Pollutant(s) in the second step and click the Run Report button.

**Step 2:** Select one or more Pollutants from the drop down list. To select more than one Pollutant, hold down the control key while clicking on the text. To clear all selections, press the Reset button. Press the Run Report button to generate the report for the selected records.

Montana Pollutant(s):

- Atrazine
- Barium
- Benzene**
- Benzo(A)Pyrene (Pahs)
- Beryllium
- Bromodichloromethane
- Bromofom
- Cadmium**
- Carbofuran
- Carbon Tetrachloride

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)



U.S. ENVIRONMENTAL PROTECTION AGENCY

## Water Quality Standards Database

Contact Us | Search: 
GO

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

### State Numeric Criteria vs. EPA Numeric Criteria Report for Montana

- Click on a State Criteria Value to display the associated Protected Designated Uses and Classes for the Pollutant in a pop-up window.
- Click on an EPA Criteria Value to display to view the EPA Current National Recommended Water Quality Criteria in a pop-up window.
- If you chose All States or more than one state, click the navigation buttons at the bottom to view the report for each of the chosen states.
- To save the data on this page of the report, select the content, copy it, paste it in a compatible application, such as, a word processing application and save it using the application menu.

State	Pollutant	State Unit of Measurement	State Defined Aquatic Life Chronic	State Defined Human Health Surface Water	EPA Freshwater CMC	EPA Freshwater CCC	EPA Saltwater CMC	EPA Saltwater CCC	Human Health Water and Organism	Human Health Organism Only	EPA Pollutant Unit of Measurement	EPA Criteria Effective Date
MT	Benzene	ppb	5	a	-	-	-	-	2.2	(D)(C) (2)	ug/L	1/1/2006
MT	Cadmium	ppb	5	b	2.0 (D)(S)(K) (bb)	0.25 (D)(E)(K) (bb)	4.0 (D)(bb)	0.8 (D)(bb)	-	0.1 (D)(C) (2)	ug/L	1/1/2006

State	State Criteria Footnote Code	State Criteria Footnote Description
MT	a	(a) = Criterion based on Federal MCL
MT	b	(b) = Value based on Federal MCL
MT	f	(f) = Value was updated in the 2002 criteria document.
MT	g	(g) = Acute criteria.
MT	i	(i) = Total residual.

Unit of Measure	Unit of Measure Description
CTC	CTC = Chronic Toxicity Criteria.
HCC	HCC = Human Cancer Criteria.
HTC	HTC = Human Threshold Criteria.
MFL	MFL = million microfibers per liter.
mm/yr	mm/yr = millimeters per year.
ppb/L	ppb/L = picograms per liter.
ppb	ppb = parts per billion.
ug/L	ug/L = micrograms per liter.

EPA Criteria Footnote Code	EPA Criteria Footnote Description
-	EPA has not calculated criteria for contaminants with blanks. However, permit authorities should address these contaminants in NPDES permit actions using the States' existing narrative criteria for toxics.
A	his recommended water quality criterion was derived from data for arsenic III, but is applied here to total arsenic, which might imply that arsenic III and V are equally toxic to aquatic life and their toxicities are additive. In the arsenic criteria document (EPA 440/5-84-033, Jan 1985), Species Mean Acute Values are given for both arsenic III and arsenic V for 5 species and ratios of MAAs for each species range from 0.6 to 1.7. Chronic values are available for both arsenic III and arsenic V for 1 species, for the fathead minnow, the chronic value for arsenic V is 0.29 times the value for arsenic III. No data are known to be available concerning whether toxicities of the forms of arsenic to aquatic organisms are additive.
aa	his criterion is based on a 304(a) aquatic life criterion issued in 1980 or 1986, and was issued in one of the following documents: Aldrin/Dieldrin (EPA 440/5-80-019), Chlordane (EPA 440/5-80-027), DDT (EPA 440/5-80-038), Endrin (EPA 440/5-80-047), Heptachlor (EPA 440/5-80-052), Polychlorinated biphenyls (EPA 440/5-80-068), Toxaphene (EPA 440/5-80-066). This CCC is currently based on the Final Residue Value (FRV) procedure. Since the publication of the Great Lakes Aquatic Life Criteria Guidelines in 1995 (60FR15393-15399, March 23, 1995), the Agency is longer uses the Final Residue Value procedure for deriving CCCs for new or revised 304(a) aquatic life criteria. Therefore, the Agency anticipates that future revisions of this CCC will not be based on the FRV procedure.

## Designated Use and Class Report

- This report is a summary of designated use and class data by state.
- The user may select data for a particular state and be returned state defined designated use and class descriptions.
- Users may select multiple states for cross-jurisdictional comparisons.

[http://iaspub.epa.gov/wqsdatabase/rpt\\_du\\_class\\_by\\_state.run\\_report](http://iaspub.epa.gov/wqsdatabase/rpt_du_class_by_state.run_report)



**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Water Quality Standards Database**

[Contact Us](#) | Search:

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > Database

### Designated Use and Class Report


Under the guidance and approval of the EPA, states must establish and define water quality standards in support of the Clean Water Act. Through this process, states develop water quality standards that consist of designated uses, beneficial uses, or classifications for all surface waters within their respective jurisdiction. The designated uses or classes (i.e., recreation, drinking water, fishing, agriculture, etc.) are protected by State defined criterion intended to uphold water quality that directly supports the water usage or classification. The WQSD provides the public with access to water quality standards (WQS) data for the United States.

Select a State, Territory, or Tribe from the drop down list. To select more than one, hold down the Control key (Ctrl) while clicking on the text. If a state or jurisdiction is not available from the drop down list, data for that state or jurisdiction is not available through the Water Quality Standards Database. States with asterisks (\*) organize their Designated Use data by Classes.

State/Tribe(s):
 

GA - Georgia  
 HI - Hawaii \*  
 IA - Iowa  
 IL - Illinois \*  
 IN - Indiana  
 KS - Kansas  
 KY - Kentucky  
 LA - Louisiana  
 MA - Massachusetts \*  
 MD - Maryland \*  
 ME - Maine \*  
 MI - Michigan  
 MN - Minnesota \*  
 MO - Missouri  
 MS - Mississippi  
 MT - Montana \*  
 NC - North Carolina \*  
 ND - North Dakota \*  
 NE - Nebraska

Designated Use and Class Report				
<ul style="list-style-type: none"> <li>For states that organize their data by Classes, click the links in the Associated State Designated Use(s) column to display the Designated Use description in a pop-up window.</li> <li>Click the EPA Effective date to display the Water Quality Standards Repository of Documents page for the State in a new browser window.</li> <li>To save the data in this report, select the content, copy it, paste it in a compatible application, such as, a word processing application and save it using the application menu.</li> </ul>				
State	Designated Use Name	Designated Use Description		EPA Effective Date
D	Aesthetic	This use applies to all surface waters of the state.		05/04/2000
D	Agricultural Water Supply	Water quality appropriate for the irrigation of crops or as drinking water for livestock. This use applies to all surface waters of the state.		05/04/2000
D	Cold Water Aquatic Life	Water quality appropriate for the protection and maintenance of a viable aquatic life community for cold water species.		05/04/2000
D	Domestic Water Supply	Water quality appropriate for drinking water supplies.		05/04/2000
D	Industrial Water Supply	Water quality appropriate for industrial water supplies. This use applies to all surface waters of the state.		05/04/2000
D	Modified Aquatic Life	Water quality appropriate for an aquatic life community that is limited due to one (1) or more conditions set forth in 40 CFR 131.10(g) which preclude attainment of reference streams and conditions.		05/04/2000
D	Primary Contact Recreation	Water quality appropriate for prolonged and intimate contact by humans or for recreational activities when the ingestion of small quantities of water is likely to occur. Such activities include, but are not restricted to, those used for swimming, water skiing, or skin diving.		05/04/2000
D	Salmonid Spawning	Waters which provide or could provide a habitat for active self-propagating populations of salmonid fishes.		05/04/2000
D	Seasonal Cold Water Aquatic Life	Water quality appropriate for the protection and maintenance of a viable aquatic life community of cool and cold water species, where cold water aquatic life may be absent during, or tolerant of, seasonally warm temperatures.		05/04/2000
D	Secondary Contact Recreation	Water quality appropriate for recreational uses on or about the water and which are not included in the primary contact category. These activities may include fishing, boating, wading, infrequent swimming, and other activities where ingestion of raw water is not likely to occur.		05/04/2000
D	Warm Water Aquatic Life	Water quality appropriate for the protection and maintenance of a viable aquatic life community for warm water species.		05/04/2000
D	Wildlife Habitat	Water quality appropriate for wildlife habitats. This use applies to all surface waters of the state.		05/04/2000
State	Class Name	Class Description	Associated State Designated Use	EPA Effective Date
MT	A-1	Waters classified A-1 are suitable for drinking, culinary and food processing purposes after conventional treatment for removal of naturally present impurities. Water quality must be suitable for bathing, swimming and recreation; growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply.	<a href="#">Agricultural</a> <a href="#">Aquatic Life</a> <a href="#">Cold Water Fishery</a> <a href="#">Drinking Water</a> <a href="#">Industrial</a> <a href="#">Primary Contact</a> <a href="#">Recreation</a>	01/06/2000
MT	A-CLOSED	Waters classified A-Closed are suitable for drinking, culinary, and food processing purposes after simple disinfection. Water quality is suitable for swimming, recreation, growth, and propagation of fishes and associated aquatic life, although access restrictions to protect public health may limit actual use of A-Closed waters for these uses. Public access and activities such as livestock grazing and timber harvest are to be controlled by the utility owner under conditions prescribed and orders issued by the department.	<a href="#">Agricultural</a> <a href="#">Aquatic Life</a> <a href="#">Cold Water Fishery</a> <a href="#">Drinking Water</a> <a href="#">Industrial</a> <a href="#">Primary Contact</a> <a href="#">Recreation</a>	01/06/2000




U.S. ENVIRONMENTAL PROTECTION AGENCY


## Water Quality Standards


[Recent Additions](#) | [Contact Us](#)


Search:


You are here: [EPA Home](#) » [Water](#) » [Water Science](#) » [Water Quality Standards](#) » [State, Tribal & Territorial Standards](#) » [Montana](#)



Water Science Home



Water Quality Standards Home



Basic Information



Where You Live



Recent Actions



Laws & Regulations


Policy & Guidance


State, Tribal & Territorial Standards


Database


Training, Meetings & Educational Materials


Partnership with Tribes

## Repository of Documents

### Montana

You will need Adobe Reader to view some of the files on this page. See [EPA's PDF page](#) to learn more.

[Water Quality Standards Provisions in Montana's Water Quality Act, Title 75 - Environmental Protection, Chapter 5 - Water Quality \(PDF\)](#) (58 pages, 350K)  
(Effective August 17, 2004) These are the water quality standards enacted by Montana State legislature.

[Mixing Zones in Surface and Ground Water - Sub-chapter 5 \(17.30.501-17.30.518\) \(PDF\)](#) (14 pages, 70K)  
(Effective August 17, 2004) This subchapter contains rules governing the granting of mixing zones.

[Surface Water Quality Standards and Procedures - Sub-chapter 6 \(17.30.601-17.30.646\) \(PDF\)](#) (56 pages, 399K)  
(Effective August 17, 2004) This subchapter contains water use classifications for waters of the state.

[Nondegradation of Water Quality - Sub-chapter 7 \(17.30.701-17.30.717\) \(PDF\)](#) (24 pages, 187K)  
(Effective August 17, 2004) This subchapter contains the implementation procedures for implementing the nondegradation policy contained in 75-5-303 of Montana's Water Quality Act.

[Circular WQB-7, Montana Numeric Water Quality Standards \(PDF\)](#) (38 pages, 164K)  
(Effective August 17, 2004) This document contains numeric water quality criteria for Montana surface and ground waters.

Montana's water quality standards are applicable to "waters of the State". In some limited instances, the definition adopted by Montana for "waters of the State" as part of its water quality standards may result in water quality standards that are more comprehensive than required under section 303(c) of the Clean Water Act and the implementing federal regulations. Specifically, Montana has adopted additional provisions related to groundwater that are outside the scope of the Clean Water Act and implementing federal regulations. EPA has included the State's water quality standards in their entirety here for context and as supplementary information for the reader.

Montana water quality standards apply to all waters within the State of Montana, with the exception of those waters that are within Indian Country, as defined in 18 U.S.C. Section 1151. EPA's approval of Montana's water quality standards was not intended as an action to approve or disapprove water quality standards applying to waters within Indian Country. EPA, or eligible Indian Tribes, as appropriate, will retain responsibilities for water quality standards within Indian Country.

[Back to the Water Quality Standards repository of documents.](#)

## State Designated Use and Class Data by National Designated Use

- This report allows users to compare state defined designated uses and class data to National Designated Uses defined by EPA.
- Establishing relationships with NDUs allows users to compare state defined uses/classes across multiple states.

[http://iaspub.epa.gov/wqsdatabase/rpt\\_st\\_du\\_cl\\_ndu.run\\_report](http://iaspub.epa.gov/wqsdatabase/rpt_st_du_cl_ndu.run_report)



U.S. ENVIRONMENTAL PROTECTION AGENCY

**Water Quality Standards Database**

[Contact Us](#) | Search:  [GO](#)

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

### State Designated Use and Class Data by National Designated Use Report

States develop water quality standards that consist of designated uses, beneficial uses, or classifications for all surface waters within their respective jurisdiction. EPA has defined seventeen National Designated Uses to enable cross-state analysis of designated uses and or classes intended to protect water quality. This report allows users to compare state defined designated uses and class data to National Designated Uses defined by EPA. Users can select multiple states for jurisdictional comparisons of designated use and class data.

Select one or more National Designated Use(s) from the drop down list. To select more than one National Designated Use, hold down the Control key (Ctrl) while clicking on the text. Click [here](#) to view a report listing the seventeen National Designated Uses and their respective definitions.

National Designated Use(s):

Aesthetic Value  
Agricultural Water Supply  
Aquatic Life & Wildlife  
Cultural or Ceremonial  
Drinking Water  
Exceptional & Outstanding Significance  
Fish Consumption  
Industrial Water Supply  
Limited Use Waters  
Navigation  
Other Consumption  
Primary Contact Recreation  
Secondary Contact Recreation  
Shellfish Consumption  
Uncommon State Designated Uses  
Underlying Protection  
Undesignated - no underlying protection



U.S. ENVIRONMENTAL PROTECTION AGENCY

**Water Quality Standards Database**

[Contact Us](#) | Search:  [GO](#)

[EPA Home](#) > [Water](#) > [Water Science](#) > [Standards](#) > [Database](#)

### State Designated Use and Class Data by National Designated Use Report

- Click the EPA Effective date to display the Water Quality Standards Repository of Documents page for the State in a new browser window.
- To save the data in this report, select the content, copy it, paste it in a compatible application, such as, a word processing application and save it using the application menu.

National Designated Use Name	State	Designated Use (D)/Class (C)	State Designated Use/Class Name	State Designated Use/Class Description	EPA Effective Date
Fish Consumption	AK	D	Marine water, harvesting for consumption of raw mollusks or other raw aquatic life	Waters suitable for the harvesting for consumption of raw mollusks or other raw aquatic life.	<a href="#">02/27/2004</a>
Fish Consumption	AK	D	Fresh water, growth and propagation of fish, shellfish, other aquatic life and wildlife	Growth and propagation of fish, shellfish, other aquatic life and wildlife, and including harvesting for human consumption	<a href="#">02/27/2004</a>
Fish Consumption	AR	D	Fish Consumption	Although not a designated use specifically mentioned in the document, it is inferred based on Human Health criteria that applies to all Waterbodies of the state	<a href="#">10/26/2006</a>
Fish Consumption	AZ	D	Fish Consumption	The use of a surface water by humans for harvesting aquatic organisms for consumption. Harvestable aquatic organisms include, but are not limited to, fish, clams, turtles, crayfish, and frogs.	<a href="#">10/22/2002</a>
Fish Consumption	CA1	D	Ocean Commercial and Sport Fishing	Uses of water for commercial or recreational (sport) collection of fish, shellfish, or other aquatic organisms including, but not limited to, uses involving organisms intended for human consumption or bait purposes.	<a href="#">08/18/1994</a>
Fish Consumption	CA1	D	Subsistence Fishing	Uses of water that support subsistence fishing	<a href="#">08/18/1994</a>
Fish Consumption	CA1	D	Shellfish Harvesting	Uses of water that support habitats suitable for the collection of filter-feeding shellfish (e.g., clams, oysters, and mussels) for human consumption, commercial, or sports purposes.	<a href="#">08/18/1994</a>
Fish Consumption	CA1	D	Aquaculture	Uses of water for aquaculture or mariculture operations including, but not limited to, propagation, cultivation, maintenance, or harvesting of aquatic plants and animals for human consumption or bait purposes.	<a href="#">08/18/1994</a>
Fish Consumption	CA2	D	Shellfish Harvesting	Uses of water that support habitats suitable for the collection of crustaceans and filter-feeding shellfish (e.g., clams, oysters, and mussels) for human consumption, commercial, or sports purposes.	<a href="#">11/13/1995</a>
Fish Consumption	CA2	D	Ocean Commercial and Sport Fishing	Uses of water for commercial or recreational (sport) collection of fish, shellfish, or other organisms in oceans, bays and estuaries, including, but not limited to, uses involving organisms intended for human consumption or bait purposes.	<a href="#">11/13/1995</a>

## State-Wide General Use Provisions

- This report lists state defined General Use Provisions. General Use Provisions establish state-wide designated or beneficial uses that protect all surface waters of a state.
- Users may select multiple states for cross-jurisdictional comparisons.

[http://iaspub.epa.gov/wqsdatabase/rpt\\_st\\_wd\\_gup.run\\_report](http://iaspub.epa.gov/wqsdatabase/rpt_st_wd_gup.run_report)

29



U.S. ENVIRONMENTAL PROTECTION AGENCY

**Water Quality Standards Database**

[Contact Us](#) | 
 Search:  [GO](#)

[EPA Home](#) > 
 [Water](#) > 
 [Water Science](#) > 
 [Standards](#) > 
 Database

### General Use Provisions Report

- Click the EPA Effective date to display the Water Quality Standards Repository of Documents page for the State in a new browser window.
- To save the data in this report, select the content, copy it, paste it in a compatible application, such as, a word processing application and save it using the application menu.

State	General Use Provision Name	General Use Provision Description	EPA Effective Date
MI	Seasonal Total Body Contact Recreation	All surface waters of the state are designated for, and shall be protected for, total body contact recreation from May 1 to October 31 in accordance with the provisions of R 323.1062. Total body contact recreation immediately downstream of wastewater discharges, areas of significant urban runoff, combined sewer overflows, and areas influenced by certain agricultural practices is contrary to prudent public health and safety practices, even though water quality standards may be met.	<a href="#">01/13/2006</a>
MI	Water Quality Findings	At a minimum, all surface waters of the state are designated for, and shall be protected for, all of the following uses: agriculture; navigation; industrial water supply; public water supply at the point of water intake; warmwater fishery; other indigenous aquatic life and wildlife; and partial body contact recreation.	<a href="#">01/13/2006</a>

The EPA Effective Date is based on the EPA-approved state Water Quality Standards document. This date is the source of all state defined Designated Use and Class data represented in the Water Quality Standards Database.

---

[EPA Home](#) | 
 [Privacy and Security Notice](#) | 
 [Contact Us](#)

## WQSDB Future

- This is the final public release of the WQSDB. Release 9 of the WQSDB is scheduled to be removed from the EPA website in February/March 2008.
- EPA is exploring options to transition into a new way of providing access to WQS information in which states can use either their own database or a copy of the WQSDB to manage their WQS information.

31

## Potential WQSDB Enhancements

- Add state defined WQS numeric criteria for recreational related values (*E. coli*, Fecal Coliform, Enterococci, etc.)
- Add Radionuclides and Turbidity criteria data
- For states that have mapped WQS information, capture and store additional criteria values intended to protect *site-specific* waterbodies
- Allow additional cross-state query functionality for defined numeric criteria, designated uses or classes, and waterbody information.

32



**For additional questions or interest in  
the EPA Water Quality Standards  
(WQSDB)**

***CONTACT...***

Bill Kramer (EPA OST)  
202-566-0385  
[kramer.bill@epa.gov](mailto:kramer.bill@epa.gov)